

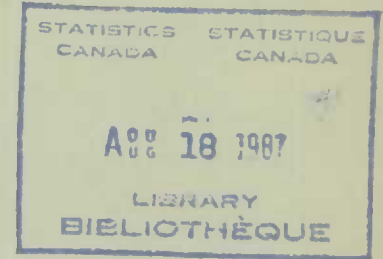
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CANADA
DEPARTMENT OF TRADE AND COMMERCE
DOMINION BUREAU OF STATISTICS
CENSUS OF INDUSTRY
MINING, METALLURGICAL & CHEMICAL BRANCH



THE PETROLEUM PRODUCTS INDUSTRY
IN
CANADA
1942



OTTAWA
1944

Price 50 cents

42-502
C.7

1947

IN RE
THE PETROLEUM INDUSTRIES INDUSTRY
IN
CANADA
1947

ATTORNEY GENERAL
EDMONTON

THE PETROLEUM INDUSTRIES INDUSTRY



1947

Dominion Statistician:
 Chief - Mining, Metallurgical and Chemical Branch:
 Statistician - Metal and Chemical Products:

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ANNUAL INDUSTRY REPORT

MANUFACTURES OF THE NON-METALLIC MINERALS GROUP

PETROLEUM PRODUCTS INDUSTRY, 1942

Statistics for the Petroleum Products Industry cover all establishments in Canada which were occupied chiefly in (a) the refining of crude oil to produce gasoline, fuel oil, etc., and (b) the blending or compounding of lubricating oils and greases.

Thirty-five refineries and 18 blending plants, or a total of 53 works, reported under this category in 1942 and the aggregate value of production was \$163,716,515, an increase of 4.5 per cent over the 1941 total of \$156,635,495.

Output figures for 1942 included \$162,628,828 for petroleum refineries and \$1,087,687 for concerns engaged in blending oils and greases, against corresponding totals in 1941 of \$155,399,872 and \$1,245,623, respectively. The principal statistics for each of these groups and for the industry as a whole are tabulated below and the detailed figures for each division are recorded separately in the succeeding pages of this report.

Table 1 - PRINCIPAL STATISTICS OF THE PETROLEUM PRODUCTS INDUSTRY, 1937-1942

Year	Number of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
<u>PETROLEUM REFINING</u>							
1937	44	63,759,579	5,047	8,126,583	4,444,878	79,993,972	97,701,954
1938	47	62,097,038	4,586	7,750,746	4,678,933	75,993,557	96,121,611
1939	42	65,784,933	4,675	7,736,330	4,573,570	73,922,207	103,494,238
1940	38	75,983,928	5,060	8,616,296	5,746,136	94,302,889	121,012,497
1941	35	81,910,037	5,317	10,186,332	7,263,685	125,258,314	155,399,872
1942	35	83,556,904	5,835	11,361,200	7,072,252	121,177,036	162,628,828
<u>COMPOUNDING OILS AND GREASES</u>							
1937	13	520,637	90	120,260	5,127	407,908	752,060
1938	12	523,870	89	122,294	4,294	425,959	881,736
1939	11	596,256	91	153,917	5,129	543,394	1,084,279
1940	11	597,815	96	192,214	5,309	557,632	1,200,303
1941	14	565,471	89	140,464	5,005	723,923	1,245,623
1942	18	605,344	85	146,052	6,722	747,220	1,087,687
<u>TOTAL</u>							
1937	57	64,280,266	5,137	8,246,843	4,459,005	80,401,880	98,454,014
1938	59	62,620,908	4,675	7,973,040	4,633,217	76,419,516	97,003,347
1939	53	68,381,139	4,766	7,390,347	4,573,639	74,465,600	104,578,517
1940	49	76,581,743	5,156	8,308,537	5,751,495	94,360,521	122,212,900
1941	49	82,475,508	5,406	10,326,846	7,268,630	125,982,237	156,635,495
1942	53	84,162,248	5,920	11,537,252	7,078,974	121,924,256	163,716,515

NOTE: Profits or losses cannot be calculated from above figures as data are not available for general expense items, such as, interest, rent, depreciation, taxes, insurance, etc.

Table 2 - PRINCIPAL STATISTICS OF THE PETROLEUM PRODUCTS INDUSTRY, BY PROVINCES, 1941 and 1942

Province	Number of plants	Capital employed \$	Average number of employees	Salaries and wages \$	Cost of fuel and electricity at works \$	Cost of materials at works \$	Gross selling value of products at works \$
<u>1941</u>							
Quebec	7	26,656,036	1,142	2,192,092	2,153,343	37,820,739	44,455,163
Ontario	15	29,262,451	2,344	4,520,461	2,863,854	43,269,989	54,453,303
Manitoba	4	2,195,727	165	213,923	88,406	2,025,373	2,810,573
Saskatchewan	9	5,446,340	474	863,797	598,763	9,427,910	14,162,758
Alberta	7	6,574,472	455	849,600	557,166	8,902,106	14,329,999
British Columbia	4	4,247,973	338	687,299	321,210	10,107,981	12,333,768
Nova Scotia	1)						
New Brunswick	1)	8,092,509	488	999,674	685,948	14,428,139	14,089,941
Northwest Territories	1)						
CANADA	49	82,475,508	5,406	10,326,846	7,268,690	125,982,237	156,635,495
<u>1942</u>							
Quebec	7	23,802,525	1,048	2,152,561	1,755,815	26,276,718	32,535,812
Ontario	16	27,624,716	2,536	5,060,737	3,232,726	47,133,734	66,399,164
Manitoba	4	2,202,828	193	270,491	83,559	2,350,438	3,237,112
Saskatchewan	9	7,108,236	539	968,046	586,219	11,852,743	17,195,774
Alberta	8	8,732,477	614	1,096,303	404,483	10,291,247	18,060,711
British Columbia	6	5,092,010	370	776,512	368,817	11,418,189	15,091,261
Nova Scotia	1)						
New Brunswick	1)	9,599,458	570	1,182,602	597,355	12,601,137	13,166,681
Northwest Territories	1)						
CANADA	53	84,162,248	5,920	11,507,252	7,078,974	121,924,256	163,716,515

(a) THE PETROLEUM REFINING INDUSTRY, 1942

Thirty-five petroleum refineries operating in Canada during 1942 were distributed by provinces as follows: 8 in Saskatchewan, 8 in Alberta, 5 in Ontario, 4 in Quebec, 4 in Manitoba, 3 in British Columbia and 1 in each of Nova Scotia, New Brunswick and Northwest Territories. Compared with 1941, there was an increase of 1 refinery in Alberta and a loss of 1 in Saskatchewan. The operating refineries had a capacity of 233,115 barrels of crude oil per day, of which Ontario had 68,000 barrels or 29 per cent; Quebec, 67,000 barrels or 28 per cent; Nova Scotia, 34,000 barrels or 14 per cent; British Columbia, 24,500 barrels or 11 per cent; Saskatchewan, 16,775 barrels or 7 per cent; Alberta, 18,100 barrels or 8 per cent; Manitoba, 3,650 barrels or 2 per cent; the Northwest Territories, 840 barrels or .4 per cent, and New Brunswick, 250 barrels. Location, type and capacity for each of these refineries is recorded in the directory at the end of this report.

During the year, 1,551,617,151 gallons of imported crude oil and 359,535,738 gallons of crude oil and absorption gasoline from Canadian wells, or a total of 1,911,152,889 gallons was put through Canadian refineries, this amounting to about 64 per cent of the rated capacity. Of the total crude input, about 60 per cent was imported from the United States and nearly 21 per cent from other countries, while about 19 per cent came from Canadian wells. The total cost at the refineries of all crude oil and naphtha charged to stills during the year was \$112,453,974. Stocks of crude oil held at the refineries on December 31 amounted to 125,370,278 gallons.

Refinery production of gasoline in 1942 amounted to 749,364,750 gallons, and in addition the refineries used for blending about 25,160,862 gallons of imported casinghead gasoline which is not included in the Canadian production figures. The gallonage of gasoline made in 1942 was 12 per cent under 1941, which, in turn, was 10 per cent over 1940. The refinery selling value of the gasoline made during the year was \$91,958,033. Stocks of gasoline held by the refineries on December 31 included 83,699,915 gallons of straight run or cracked gasoline and 785,832 gallons of imported casinghead gasoline. In 1942 there was an output of 10,392,819 gallons of natural gasoline from absorption plants in Alberta. This was practically all sold to refineries and is included with the gallonage charged to stills, and the refined gasoline made therefrom is included in the refinery output figures.

Imports of gasoline, including casinghead, amounted to 115,995,765 gallons during 1942, which, added to the production of 749,364,750 gallons plus the decline in producers' and consumers' stocks of

40,175,792 gallons and less the exports of 15,897,471 gallons, made an apparent Canadian consumption of 889,638,836 gallons. Actual sales reported to the Provincial Governments under the Gasoline Tax Acts amounted to 897,806,958 gallons.

Production of fuel and gas oils (excluding any made and used for cracking processes) totalled 859,801,397 gallons, of which 793,726,433 gallons were made for sale and 66,074,964 gallons for use as fuel in the producing plant. Imports amounted to 40,480,340 gallons and exports to 50,964,402 gallons. Stocks of fuel oil and distillate at the end of the year stood at 231,800,458 gallons, or about 5,143,240 gallons more than in 1941. Output of tractor and engine distillate was 44,676,079 gallons in 1942, imports amounted to 1,285,939 gallons, and producers' stocks increased 1,845,890 gallons. The apparent consumption of fuel oils and distillate in Canada, as calculated from the above figures, amounted to 890,136,113 gallons.

Capital employed in the petroleum refining industry in 1942 was reported at \$83,556,904, of which \$39,174,376 was the value placed on land, buildings, machinery and equipment, \$40,075,515 represented inventories of finished products and processing materials, and \$4,307,013 were for operating capital, such as, cash, bills and accounts receivable. The monthly employment averaged 5,835 persons who received \$11,361,200 in salaries and wages. Expenditures for fuel and electricity amounted to \$7,072,252, and \$121,177,036 were paid out for crude oil and other processing materials.

Table 3 - NUMBER AND TOTAL CAPACITY OF PETROLEUM REFINERIES IN OPERATION IN CANADA, 1939-1942

Province	1939		1940		1941		1942	
	Number	Capacity in barrels of crude per day	Number	Capacity in barrels of crude per day	Number	Capacity in barrels of crude per day	Number	Capacity in barrels of crude per day
Nova Scotia	1	32,500	1	32,500	1	34,000	1	34,000
New Brunswick	1	250	1	250	1	250	1	250
Quebec	4	64,500	4	64,500	4	67,000	4	67,000
Ontario	5	44,500	5	57,500	5	68,000	5	68,000
Manitoba	5	2,550	4	4,150	4	4,150	4	3,650
Saskatchewan	11	14,620	10	16,220	9	17,300	8	16,775
Alberta	11	18,250	9	16,850	7	16,250	8	18,100
British Columbia	3	22,700	3	24,500	3	24,500	3	24,500
Northwest Territories	1	150	1	300	1	840	1	840
CANADA	42	200,020	38	217,270	55	232,290	55	233,115

Note: 1 barrel = 35 Imp.gals.

Table 4 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, 1922-1942

Year	Number of refineries	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1922	13	61,253,400	3,498	5,391,285	4,227,615	38,129,880	56,495,821
1923	14	60,288,861	4,195	5,531,569	4,054,846	36,435,306	45,571,506
1924	17	53,095,784	3,603	5,623,978	3,580,032	36,663,292	48,677,347
1925	13	49,461,900	3,655	5,621,898	3,433,017	37,314,303	49,802,615
1926	17	53,476,449	3,698	5,732,589	3,580,049	50,783,871	70,570,240
1927	16	55,442,193	3,802	6,073,226	3,628,842	52,743,530	63,979,849
1928	16	55,811,418	4,252	6,803,234	3,440,578	57,033,185	82,448,392
1929	15	69,887,267	4,883	7,984,786	3,745,956	76,289,182	98,384,190
1930	15	69,077,982	5,030	8,003,357	3,859,683	71,307,879	90,809,711
1931	20	67,288,556	4,058	6,110,068	3,371,118	50,353,423	75,588,425
1932	24	68,882,376	4,058	5,897,811	3,338,648	52,029,471	71,360,324
1933	37	67,566,886	4,551	6,041,230	3,130,719	48,916,366	69,803,721
1934	42	66,450,496	4,876	6,274,799	3,117,697	56,359,492	75,785,677
1935	45	64,012,045	4,771	7,046,675	3,839,424	53,415,916	79,176,081
1936	50	61,307,820	4,335	7,193,148	3,927,321	68,219,143	86,172,981
1937	44	63,759,579	5,047	8,126,583	4,444,878	72,993,972	97,701,954
1938	47	62,097,038	4,586	7,750,746	4,678,933	75,993,557	96,121,611
1939	42	65,784,933	4,675	7,736,330	4,573,570	73,922,707	103,494,238
1940	38	75,983,923	5,060	8,616,296	5,746,186	94,302,889	121,012,497
1941	35	81,910,037	5,317	10,186,282	7,263,685	125,258,314	153,389,872
1942	35	83,556,904	5,835	11,361,200	7,072,252	121,177,036	162,623,828

Table 5 - PRINCIPAL STATISTICS OF THE PETROLEUM REFINING INDUSTRY, BY PROVINCES, 1941 and 1942

Province	Number of refineries	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
<u>1 9 4 1</u>							
Quebec	4	26,542,918	1,112	2,142,629	2,150,408	37,746,149	44,293,624
Ontario	5	28,814,379	2,237	4,432,949	2,862,084	42,627,542	53,380,114
Manitoba	4	2,195,727	165	213,923	88,406	2,025,373	2,810,573
Saskatchewan	9	5,446,340	474	863,797	598,763	9,427,910	14,162,758
Alberta	7	6,574,472	455	849,600	557,166	8,902,106	14,329,999
British Columbia ..	3	4,243,692	336	683,810	320,910	10,101,095	12,322,863
Other provinces (x)	3	8,092,509	488	999,674	685,948	14,428,139	14,089,941
CANADA	35	81,910,037	5,317	10,186,382	7,263,685	125,258,314	155,389,872
<u>1 9 4 2</u>							
Quebec	4	23,687,976	1,022	2,102,330	1,752,779	26,209,442	32,385,988
Ontario	5	27,228,930	2,536	4,977,800	3,280,297	46,478,815	65,512,068
Manitoba	4	2,202,826	193	270,491	83,559	2,350,438	3,267,112
Saskatchewan	8	7,030,689	537	965,472	585,794	11,852,663	17,190,774
Alberta	8	8,732,477	614	1,096,303	404,483	10,291,247	18,060,711
British Columbia ..	3	5,074,548	363	766,202	367,985	11,393,294	13,045,494
Other provinces (x)	3	9,599,458	570	1,182,602	6,805,009	12,601,137	13,166,681
CANADA	35	83,556,904	5,835	11,361,200	7,072,252	121,177,036	162,628,828

(x) Includes 1 refinery in each of Nova Scotia, New Brunswick and the Northwest Territories.

Table 6 - CAPITAL EMPLOYED IN THE PETROLEUM REFINING INDUSTRY, 1941 and 1942 (On the last day of the year)

Province	Present value of land, buildings, machinery and equipment	Value of Inventories		Operating capital (cash, bills and accounts receivable, etc.)	TOTAL CAPITAL EMPLOYED
		Raw materials, fuel and other supplies on hand and stocks in process	Finished products on hand		
	\$	\$	\$	\$	\$
<u>1 9 4 1</u>					
Quebec	11,845,836	6,122,499	8,327,267	247,316	26,542,918
Ontario	13,644,617	6,747,060	7,179,269	1,243,433	28,814,379
Manitoba	1,330,588	268,478	289,880	306,731	2,195,727
Saskatchewan	3,047,253	725,642	1,162,532	510,913	5,446,340
Alberta	3,942,861	919,772	1,363,323	348,516	6,574,472
British Columbia ..	1,521,362	787,765	1,873,900	54,665	4,243,692
Other provinces ..	2,449,420	1,511,086	2,577,793	1,554,210	8,092,509
CANADA	37,781,937	17,082,302	22,779,964	4,265,834	81,910,037
<u>1 9 4 2</u>					
Quebec	10,853,327	5,533,776	7,116,184	184,689	23,687,976
Ontario	13,814,373	6,749,298	5,413,409	1,252,850	27,228,930
Manitoba	1,332,226	299,793	297,584	273,223	2,202,826
Saskatchewan	4,012,357	852,578	1,521,240	644,514	7,030,689
Alberta	5,528,849	1,043,336	1,698,286	458,956	8,732,477
British Columbia ..	1,380,848	970,911	2,449,042	273,747	5,074,548
Other provinces ..	2,254,396	2,572,308	3,553,670	1,219,034	9,599,458
CANADA	39,174,376	18,026,100	22,049,415	4,307,013	83,556,904

Table 7 - EMPLOYEES IN PETROLEUM REFINERIES, SALARIES AND WAGES, 1941 and 1942

Province	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
<u>1941</u>								
Quebec	181	21	908	2	1,112	568,223	1,574,406	2,142,629
Ontario	333	75	1,973	6	2,287	1,123,508	3,309,441	4,432,949
Manitoba	41	10	114	...	165	87,800	126,123	213,923
Saskatchewan ...	90	23	359	2	474	265,866	597,931	863,797
Alberta	80	18	357	...	455	264,534	585,066	849,600
British Columbia	54	10	269	3	336	184,445	499,365	683,810
Other provinces.	52	22	413	1	488	225,799	773,885	999,674
CANADA	831	179	4,293	14	5,317	2,720,165	7,466,217	10,186,382
<u>1942</u>								
Quebec	190	29	800	3	1,022	590,404	1,511,926	2,102,330
Ontario	381	137	2,006	12	2,536	1,266,148	3,711,652	4,977,800
Manitoba	43	12	138	...	193	100,446	170,045	270,491
Saskatchewan ...	100	33	399	5	537	315,950	649,522	965,472
Alberta	144	30	437	3	614	381,243	715,060	1,096,303
British Columbia	58	16	286	3	363	211,171	555,031	766,202
Other provinces.	60	32	475	3	570	264,448	918,154	1,182,602
CANADA	976	289	4,541	29	5,835	3,129,810	8,231,390	11,361,200

Table 8 - NUMBER OF WAGE-EARNERS IN PETROLEUM REFINERIES, BY MONTHS, 1942 (On the last work-day of each month)

Month	Quebec	Ontario	Manitoba	Saskat- chewan	Alberta	British Columbia	Other provinces	CANADA
January	928	1,977	128	322	421	267	450	4,493
February	875	1,969	131	329	429	266	449	4,448
March	886	2,001	135	352	438	265	439	4,516
April	870	2,027	137	400	440	276	475	4,625
May	819	2,042	147	432	444	301	493	4,677
June	816	2,054	150	426	452	314	491	4,703
July	806	2,019	146	417	453	315	489	4,645
August	797	2,013	143	447	461	302	493	4,656
September	721	1,980	137	446	421	295	482	4,482
October	707	1,973	139	443	437	293	494	4,476
November	706	2,042	134	423	433	286	494	4,518
December	704	2,121	129	415	422	287	482	4,560
AVERAGE	803	2,018	138	404	440	289	478	4,570

Table 9 - HOURS WORKED PER WEEK BY WAGE-EARNERS, 1941 and 1942 (In one week of month of highest employment; overtime included)

Hours worked per week	Number of wage-earners		Hours worked per week	Number of wage-earners	
	1941	1942		1941	1942
30 hours or less	87	68	55 hours	70	37
31-43 hours	2,034	2,310	56-64 hours	197	214
44 hours	1,234	1,381	65 hours and over ...	59	115
45-47 hours	47	52	TOTAL	4,731	5,211
48 hours	708	770	Total wages paid dur-		
49-50 hours	91	80	ing selected week .. \$	162,337	178,324
51-54 hours	204	184			

Table 10 - FUEL(x) AND ELECTRICITY USED IN PETROLEUM REFINERIES, 1941 and 1942

Kind	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Bituminous coal--Canadian	ton	5	35	...	...
Imported	ton	35,151	196,414	42,689	281,353
Coke, including petroleum coke	ton	3,133	20,157	9,004	62,874
Gasoline	Imp. gal.	418,134	67,444	378,991	81,959
Kerosene	Imp. gal.	32,712	2,882	34,698	3,641
Fuel oil	Imp. gal.	62,369,774	2,739,119	66,047,260	3,088,990
Wood	cord	518	1,648	589	2,170
Gas--Manufactured, including still gas.	M cu.ft.	9,970,599	3,119,323	7,873,405	2,630,805
Natural	M cu.ft.	3,992,284	301,784	3,962,713	82,621
Other fuel .....	...	...	226,669	...	236,214
Electricity purchased	K. W. H.	82,730,311	588,210	80,938,237	601,125
TOTAL .....	...	...	7,263,685	...	7,072,252
Electricity generated for own use	K. W. H.	219,415	...	124,642	...

(x) Includes fuel oil, still gas, petroleum coke, etc., produced in the refineries and used by the producers for heating stills, buildings, etc., or for power purposes.

Table 11 - POWER EQUIPMENT IN PETROLEUM REFINERIES, 1941 and 1942

	Ordinarily in Use		In Reserve or Idle	
	Number of units	Total rated horse power	Number of units	Total rated horse power
<u>1 9 4 1</u>				
Steam engines and steam turbines	480	21,971	28	705
Diesel engines	11	1,144	...	...
Gasoline, gas and oil engines (except diesel)	65	2,854	2	76
Total Primary Equipment	556	25,969	30	781
Electric motors run by purchased power	1,662	30,342	69	848
TOTAL	2,218	56,311	99	1,629
Electric motors run by power generated by primary equipment above	32	105	...	...
Stationary boilers	123	31,756	3	260
<u>1 9 4 2</u>				
Steam engines and steam turbines	465	20,865	32	900
Diesel engines	8	1,105	...	...
Gasoline, gas and oil engines (except diesel)	67	2,142	2	75
Total Primary Equipment	540	24,112	34	975
Electric motors run by purchased power	1,691	32,083	63	1,407
TOTAL	2,231	56,195	97	2,382
Electric motors run by power generated by primary equipment above	65	296	...	...
Stationary boilers	150	32,937	4	294
Motor generator sets	16	856	...	...

Table 12 - MATERIALS USED IN PETROLEUM REFINERIES, 1941 and 1942

Material	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells	Imp.gal.	342,774,192	17,627,799	349,255,157	19,047,524
Absorption gasoline, etc., from Canadian wells (run to stills)	Imp.gal.	10,065,382	643,968	10,280,581	726,600
Crude oil, in its natural state, imported, (run to stills)--(a) From United States ..	Imp.gal.	948,975,940	55,377,605	1,146,769,895	69,828,576
(b) From Other Countries.	Imp.gal.	731,145,673	39,877,817	396,913,456	21,572,639
Crude oil, not in its natural state (run to stills)	Imp.gal.	936,880	47,765	7,933,800	1,278,635
Benzol for blending	Imp.gal.	4,753,868	568,575	3,954,267	551,217
Phenol	pound	470,309	69,308	631,331	95,547
Sulphuric acid, 66° Be	pound	29,316,857	315,083	34,741,455	396,297
Sulphur	pound	102,634	2,649	63,375	1,561
Caustic soda	pound	7,170,755	205,336	5,786,123	171,668
Soda ash	pound	410,738	8,920	327,366	7,350
Litharge	pound	257,296	22,430	195,309	17,245
Fullers' earth and clay	pound	30,155,750	571,010	24,162,091	528,350
Compounding materials .....	...	...	1,386,825	...	227,951
Tetraethyl fluid	c.c.	...	3,944,940	1,558,594,864	3,523,276
Aviation blending materials .....	...	...	1,458,307	...	1,758,052
Other materials .....	...	...	2,013,991	...	677,034
Shipping containers .....	...	...	1,115,986	...	789,534
TOTAL .....	...	...	125,258,314	...	121,177,056

Table 13 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1942

Material	Unit of measure	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other Provinces
Crude oil (under 60° A.P.I.) in its natural state, from Canadian wells.	Imp.gal.	...	5,540,214	16,841,296	138,389,088	185,879,807	...	2,604,752
	\$	...	354,662	1,280,955	8,664,261	8,626,882	...	120,764
Absorption gasoline, etc. from Canadian wells (run to stills)	Imp.gal.	...	...	...	89,531	10,191,050	...	...
	\$	...	...	...	13,373	713,227	...	...
Crude oil, in its natural state, imported (run to stills) - (a) From United States ...	Imp.gal.	158,510,905	709,696,414	11,078,837	39,243,151	...	207,787,862	20,452,826
	\$	11,555,197	42,489,364	984,667	2,743,523	...	10,603,153	1,452,672
(b) From Other Countries.	Imp.gal.	187,679,486	...	...	...	...	2,993,746	206,240,224
	\$	10,851,933	...	...	...	...	189,801	10,530,905
Crude oil, not in its natural state, imported from United States	Imp.gal.	4,220,510	...	...	...	...	1,316,910	...
	\$	702,559	...	...	...	...	95,926	...
Other Countries	Imp.gal.	2,396,380	...	...	...	...	...	...
	\$	480,151	...	...	...	...	...	...
Benzol for blending	Imp.gal.	1,801,076	1,382,345	216	1,445	156	...	769,029
	\$	247,502	180,956	100	565	64	...	102,030

Petroleum Products

Table 13 - MATERIALS USED IN PETROLEUM REFINERIES, BY PROVINCES, 1942 (Concluded)

Material	Unit of measure	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other Provinces
Sulphuric acid								
66° Bé	Pound	807,654	27,473,338	101,095	2,301,529	2,072,300	1,985,539	...
	\$	8,210	304,004	3,182	37,701	23,115	20,085	...
Sulphur	Pound	18,877	6,092	406	1,500	36,500	...	...
	\$	583	167	15	66	730	...	...
Caustic soda	Pound	844,832	1,605,651	164,220	962,866	1,152,225	497,164	558,755
	\$	23,479	34,890	6,843	33,064	41,495	15,574	16,213
Soda ash	Pound	37,796	20,650	8,825	193,452	41,400	11,700	8,543
	\$	792	351	223	4,358	1,180	284	167
Litharge	Pound	27,752	102,550	1,570	5,450	57,002	685	500
	\$	2,455	8,950	169	564	5,087	55	65
Fullers' earth and clay	Pound	811,610	22,206,829	...	93,400	122,830	...	922,372
	\$	11,170	497,323	...	1,987	2,486	...	15,384
Compounding materials .....	\$	...	206,424	...	...	...	21,507	...
Tetraethyl fluid.	\$	918,451	1,218,738	64,875	321,582	457,991	219,379	322,260
Other materials..	\$	1,405,799	422,510	9,404	31,619	418,980	209,313	31,008
Shipping containers	\$	1,162	760,576	...	...	10	18,217	9,569
TOTAL	\$	26,209,442	46,478,315	2,350,438	11,852,663	10,291,247	11,393,294	12,601,137

(\$ = Cost at works)

Table 14 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES IN CANADA, 1919-1942

Year	Crude oil used Imp.gal.	Year	Crude oil used Imp.gal.
1919	301,006,535	1931	1,074,788,038
1920	295,576,527	1932	930,114,055
1921	373,469,418	1933	1,044,210,850
1922	395,139,055	1934	1,109,510,343
1923	408,810,739	1935	1,196,411,443
1924	467,144,634	1936	1,286,462,895
1925	445,115,694	1937	1,433,581,694
1926	585,468,329	1938	1,418,659,164
1927	716,369,890	1939	1,569,903,295
1928	849,933,770	1940	1,745,494,281
1929	1,072,828,496	1941	2,033,898,067
1930	1,064,434,974	1942	1,911,152,389

Table 15 - CONSUMPTION OF CRUDE OIL IN PETROLEUM REFINERIES SHOWING CANADIAN AND IMPORTED, SEPARATELY, 1931-1942

Year	Canadian (a) Imp.gal.	Imported (b) Imp.gal.	TOTAL Imp.gal.
1931	49,668,529	1,025,119,509	1,074,788,038
1932	37,340,321	892,773,734	930,114,055
1933	32,404,139	1,011,806,711	1,044,210,850
1934	41,461,763	1,068,048,580	1,109,510,343
1935	40,785,473	1,155,625,970	1,196,411,443
1936	42,792,311	1,243,670,584	1,286,462,895
1937	90,004,669	1,343,577,025	1,433,581,694
1938	236,492,200	1,182,166,964	1,418,659,164
1939	262,198,984	1,307,704,311	1,569,903,295
1940	302,235,830	1,443,258,451	1,745,494,281
1941	352,839,574	1,681,058,493	2,033,898,067
1942	359,533,738	1,551,617,151	1,911,152,389

(a) Includes the crude naphtha and absorption gasoline from the Turner Valley field which was run to refinery stills.

(b) Includes reduced crude.

Table 16 - CASINGHEAD GASOLINE IMPORTED AND USED FOR BLENDING AT THE REFINERIES, 1942 (These items not included in previous tables)

Imported natural casinghead gasoline received at the refinery during the year	Imp.gal.	25,777,249
	\$	2,243,949
Imported natural casinghead gasoline used for blending during the year	Imp.gal.	25,160,862
Total stocks of imported natural casinghead gasoline at the end of the year..	Imp.gal.	785,832

Table 17 - PRODUCTS MADE IN PETROLEUM REFINERIES, 1941 and 1942

Product	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Gross selling value at works \$	Quantity	Gross selling value at works \$
Made for Sale -					
Gasoline--Straight run (1)	Imp.gal.	407,405,924	44,722,348	379,188,943	50,036,253
By cracking process (2)...	Imp.gal.	450,312,427	45,535,487	369,985,302	41,897,722
Stove oil (40° - 42.5° A.P.I.)	Imp.gal.	23,231,604	1,307,618	24,515,578	1,652,595
Gas and light fuel oil (20° - 40° A.P.I., except diesel)	Imp.gal.	135,322,293	7,512,659	141,126,499	8,616,052
Diesel fuel oil (all fuel oil sold under this name)	Imp.gal.	79,104,809	4,192,138	79,247,928	4,644,937
Residual fuel oil (10° - 20° A.P.I.)	Imp.gal.	534,238,465	23,197,496	548,836,428	24,978,037
Tractor and engine distillate	Imp.gal.	40,807,811	3,748,290	44,636,725	4,534,787
V.M. and P. or solvent naphtha	Imp.gal.	12,092,093	1,230,697	20,907,259	2,355,333
Kerosene	Imp.gal.	26,758,097	2,741,984	24,912,066	2,766,291
Lubricating oil	Imp.gal.	36,433,253	7,089,121	38,076,120	7,405,169
Lubricating grease	pound	15,562,856	861,604	20,874,531	1,171,490
Asphalt	Imp.gal.	72,752,742	6,168,440	55,008,547	4,709,563
Petroleum coke	ton	67,702	471,564	64,461	464,326
Other products .....	...	...	479,572	...	1,232,878
TOTAL - MADE FOR SALE .....	...	...	149,258,998	...	156,465,433
Made for Own Use -					
Gasoline - Straight run	Imp.gal.	192,848	21,650	182,635	22,937
By cracking process	Imp.gal.	13,255	1,684	7,870	1,121
Stove oil	Imp.gal.	...	...	890	39
Gas and light fuel oil (20° - 40° A.P.I.)	Imp.gal.	100,396	4,545	69,101	4,232
Diesel fuel oil	Imp.gal.	18,831	1,230	72,646	4,302
Residual fuel oil (10° - 20° A.P.I.)	Imp.gal.	62,832,512	2,727,422	65,932,327	3,068,787
Tractor and engine distillate	Imp.gal.	2,315	170	39,354	3,254
Kerosene	Imp.gal.	41,741	3,775	45,730	4,814
Lubricating oil	Imp.gal.	93,918	17,453	61,516	12,755
Asphalt	Imp.gal.	62,003	5,485	57,236	5,324
Petroleum coke	ton	3,138	21,774	8,950	63,411
Still gas	M cu.ft.	9,971,263	3,109,920	7,621,105	2,734,711
Other products .....	...	...	215,766	...	237,708
TOTAL - MADE FOR OWN USE .....	...	...	6,130,874	...	6,163,395
GRAND TOTAL .....	...	...	155,389,872	...	162,628,828
Fuel and gas oils and topped crude, for use in cracking process	Imp.gal.	765,115,376	...	522,046,536	...

(1) Includes recoveries from Turner Valley naphtha and natural gasoline run to refinery stills but does not include the imported casinghead gasoline which was used for blending at the refineries.

(2) Includes polymer gasoline.

Table 18 - PRODUCTS MADE IN PETROLEUM REFINERIES, BY PROVINCES, 1942

Product	Unit of measure	Quebec	Ontario	Manitoba	Saskatchewan	Alberta	British Columbia	Other Provinces
Made for Sale -								
Gasoline	Imp.gal.	140,032,123	290,046,414	12,802,001	94,883,071	119,653,825	43,456,839	48,229,972
	\$	19,799,912	33,007,418	1,973,460	11,447,361	14,235,838	5,787,392	5,682,594
Fuel oil and gas oil	Imp.gal.	138,977,399	282,005,128	7,081,182	26,924,517	31,176,265	147,045,848	160,516,094
	\$	8,123,574	15,435,776	552,487	1,443,968	1,541,362	6,197,773	6,596,681
Tractor and engine distillate	Imp.gal.	...	2,443,455	4,654,917	24,805,315	12,732,634	404	...
	\$	...	242,109	587,942	2,645,700	1,058,966	70	...
V. M. & P. or solvent naphtha	Imp.gal.	8,174,393	10,003,474	112,962	552,849	494,965	1,106,322	462,294
	\$	930,023	1,117,294	22,910	68,170	56,365	125,899	34,672
Kerosene	Imp.gal.	1,845,725	15,625,676	365,007	4,379,281	2,696,377	...	...
	\$	205,137	1,658,776	60,460	540,741	301,177	...	...
Lubricating oil	Imp.gal.	832,607	36,727,597	...	...	...	491,344	24,572
	\$	142,691	7,161,759	...	...	...	95,763	4,956
Grease	Pound	12,351	20,862,180	...	...	...	...	...
	\$	2,414	1,169,076	...	...	...	...	...
Asphalt	Imp.gal.	17,648,890	15,024,862	...	5,960,141	7,277,511	5,513,455	3,583,688
	\$	1,402,715	1,412,337	...	466,549	605,010	518,339	304,613
Petroleum coke	Ton	...	62,740	...	1,516	23	...	182
	\$	...	455,104	...	8,715	48	...	459
Other products	\$	175,006	981,686	...	76,186	...	...	...
TOTAL - MADE FOR SALE	\$	29,786,817	62,641,335	3,197,259	16,697,390	17,798,766	12,725,236	12,623,975
Made for Own Use -								
Gasoline	Imp.gal.	12,575	101,891	10,630	5,097	18,342	4,436	37,534
	\$	1,644	11,316	2,658	529	3,519	450	3,942
Fuel oil and gas oil	Imp.gal.	20,406,801	21,110,796	1,557,672	5,384,231	465,028	7,462,722	9,680,714
	\$	999,703	1,076,068	63,878	240,910	23,292	283,642	388,423
Kerosene	Imp.gal.	...	42,091	...	3,639	...	...	...
	\$	...	4,376	...	438	...	...	...
Lubricating oil	Imp.gal.	3,982	44,038	...	...	...	3,592	9,904
	\$	778	9,279	...	...	...	700	1,993
Petroleum coke	Ton	...	8,746	...	191	...	...	13
	\$	...	62,282	...	1,097	...	...	32
Still gas	M cu.ft.	1,564,387	3,627,034	...	801,615	1,206,551	100,666	320,852
	\$	602,369	1,499,806	...	222,611	231,958	30,207	147,760
Other products	\$	22	207,606	3,317	27,799	3,176	259	551
TOTAL - MADE FOR OWN USE ...	\$	1,604,516	2,870,733	69,853	493,384	261,945	320,258	542,706
GRAND TOTAL	\$	32,385,938	65,512,068	3,267,112	17,190,774	18,060,711	13,045,494	13,166,681
Fuel and gas oils made for use in cracking process	Imp.gal.	61,020,483	286,328,894	5,142,038	30,556,771	67,085,080	20,712,510	51,202,760

(\$ = Gross selling value at works).

Table 19 - STOCKS ON HAND AT THE REFINERIES AT THE END OF 1942

	Stocks on hand at refineries on December 31, 1942	Increase or decrease over December 31, 1941
	Imp. gal.	Imp. gal.
Crude oil and naphtha, in its natural state, from Canadian wells	12,881,385	- 1,468,612
Absorption gasoline, etc., from Canadian wells	648,393	- 98,297
Crude oil, imported—In its natural state	111,380,145	-18,014,912
Not in its natural state	460,355	+ 165,183
Total Crude	125,370,278	-19,416,638
Gasoline (excluding imported casinghead or Canadian absorption gasoline)	83,699,915	-35,470,781
Stove oil (40° - 42.5° A.P.I.)	5,990,137	+ 752,718
Gas and light fuel oil (20° - 40° A.P.I., excepting diesel)	32,753,782	+ 460,990
Diesel fuel oil	4,819,845	+ 320,221
Residual fuel oil (10° - 20° A.P.I.)	45,217,683	- 6,458,190
Fuel oil for use in cracking process	15,058,024	+ 3,238,986
Tractor and engine distillate	6,996,505	+ 1,845,890
V. M. & P. or solvent naphtha	2,779,755	- 427,989
Kerosene	6,325,341	+ 119,899
Lubricating oils	5,145,595	+ 667,146
Total Refined	208,786,582	-32,949,110

Table 20 - PRODUCTION OF CRUDE PETROLEUM IN CANADA, 1941 and 1942

Areas	1 9 4 1		1 9 4 2	
	Barrels	Value	Barrels	Value
		\$		\$
New Brunswick	31,359	44,102	28,089	39,467
Ontario	160,238	337,760	143,845	306,242
Alberta	9,918,577	13,985,906	10,117,073	15,514,665
Northwest Territories	23,664	47,328	75,789	103,477
CANADA	10,133,838	14,415,096	10,364,796	15,968,851

Table 21 - REFINERY PRODUCTION OF GASOLINE IN CANADA, 1930-1942

Year	Straight run	By cracking	TOTAL	Per cent of total made by cracking
	Imp. gal.	Imp. gal.	Imp. gal.	
1930	276,284,656	169,314,761	445,599,417	38
1931	278,215,832	191,632,502	469,925,375	41
1932	207,823,273	192,113,405	399,936,678	48
1933	267,086,230	155,850,563	422,936,793	37
1934	294,980,092	166,773,271	461,753,363	36
1935	292,520,425	221,195,579	513,716,004	43
1936	316,207,576	251,451,700	567,659,276	44
1937	361,900,397	278,399,479	640,299,878	43
1938	362,583,649	291,445,476	654,029,125	45
1939	405,738,237	334,825,382	740,563,619	45
1940	409,512,163	370,470,943	779,983,106	47
1941	407,598,772	450,325,682	857,924,454	52
1942	379,371,578	369,993,172	749,364,750	49

Table 22 - APPARENT SUPPLY IN CANADA OF GASOLINE, FUEL OIL, ENGINE DISTILLATE, KEROSENE AND LUBRICATING OIL, 1941-1942

	Fuel and gas oils (a)	Gasoline	Lubricating oils	Kerosene	Tractor and engine distillate
	Imp.gal.	Imp.gal.	Imp.gal.	Imp.gal.	Imp.gal.
<u>1941</u>					
Production	334,848,910(b)	857,924,454	38,008,499	26,799,838	40,810,126
Plus imports entered for consumption	51,142,939	88,522,531	14,898,783	1,065,445	965,827
	865,991,849	946,446,985	52,907,282	27,865,283	41,775,953
Less exports and re-exports..	13,469,619	15,843,229	...	1,013,324	...
	847,522,230	930,603,756	52,907,282	26,851,959	41,775,953
Plus decline in stocks (c) ..	...	7,712,547	74,423	2,612,668	...
	847,522,230	938,316,103	52,981,705	29,464,627	41,775,953
Less increase in stocks (c)..	11,169,537	...	...	...	1,239,674
APPARENT CONSUMPTION ..	836,352,693	938,316,103	52,981,705	29,464,627	40,536,279
<u>1942</u>					
Production	859,801,397(b)	749,364,750	39,374,231	24,957,796	44,676,079
Plus imports entered for consumption	40,480,340	115,995,765	15,137,879	9,346,503	1,285,939
	900,281,737	865,360,515	54,512,110	34,304,299	45,962,018
Less exports and re-exports..	50,964,402	15,897,471	3,023,580	924,699	...
	849,317,335	849,463,044	51,488,530	33,379,600	45,962,018
Plus decline in stocks (c) ..	...	40,175,792	...	...	...
	849,317,335	889,638,836	51,488,530	33,379,600	45,962,018
Less increase in stocks (c)..	5,143,240	...	667,146	1,650,746	1,845,890
APPARENT CONSUMPTION ...	844,174,095	889,638,836	50,821,384	31,719,854	44,116,128

(a) Import figures for fuel oil do not include amounts brought in "ex-warehoused for ships' stores". This item covers fuel oil imported in bond for use in fueling vessels at Canadian ports and, as there is no corresponding export item, such quantities have been omitted when compiling figures of Canadian consumption. In 1940 the amount under this item was 54,453,217 gallons, in 1941 it was 32,242,767 gallons and in 1942 it was 20,716,795 gallons.

(b) Exclusive of fuel oil for cracking operations but including fuel oil used by refineries for power or heating purposes.

(c) Allows for changes in stocks at points other than refineries. (Figures taken from "Petroleum Fuels in Canada" issued by the Bureau of Mines, Department of Mines and Resources, Ottawa.)

Table 23 - APPARENT SUPPLY OF FUEL OIL, GASOLINE, KEROSENE, ENGINE DISTILLATE, and LUBRICATING OILS, 1932-1942

(Computed from Production, Imports, Exports and Refinery Stocks)

Year	Fuel and gas oils	Gasoline	Engine distillate	Kerosene	Lubricating oils
	(Imperial gallons)				
1932	460,366,156	505,231,853	Not	54,524,585	26,128,986
1933	481,688,950	463,176,444	avail-	42,362,473	30,557,493
1934	503,060,605	524,622,641	able	42,727,523	26,933,794
1935	505,844,126	564,140,772	38,030,150	31,168,762	32,800,529
1936	532,285,529	616,676,937	35,344,520	31,138,985	34,222,724
1937	563,807,090	709,275,664	31,189,319	26,687,696	39,625,132
1938	592,659,806	762,926,869	32,029,332	27,466,736	38,729,528
1939	647,298,402	814,188,217	38,024,386	35,757,905	43,279,063
1940	776,586,326	896,528,828	27,929,810	29,139,500	48,261,092
1941	836,352,693	938,316,103	40,536,279	29,464,627	52,981,705
1942	844,174,095	809,287,252	44,116,128	31,719,854	50,321,384

Table 24 - GROSS SALES OF GASOLINE IN CANADA, BY PROVINCES, 1939-1942 (Gross sales—sold for all purposes; Net sales—sold for use in automobiles) - Computed from Gasoline Tax returns.

Province	1939	1940	1941	1942
	(1000's of Imperial gallons)			
Prince Edward Island	4,129	4,094	5,175	6,629
Nova Scotia	31,622	34,961	41,355	40,886
New Brunswick	23,192	24,830	26,289	25,499
Quebec	138,925	148,500	165,839	149,917
Ontario	345,106	371,903	410,712	343,811
Manitoba	41,456	48,894	54,213	58,568
Saskatchewan	87,877	101,101	112,779	101,808
Alberta	75,535	83,809	93,068	97,502
British Columbia	59,824	65,198	70,996	73,187
TOTAL GROSS SALES	807,666	883,290	980,426	897,807
REFUNDS	144,505	181,176	233,900	287,525
TOTAL NET SALES	663,161	702,114	746,526	610,282

Table 25 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS, 1939-1942

Month	1939	1940	1941	1942
	(1000's of Imperial gallons)			
January	40,078	44,773	48,960	57,207
February	33,452	41,690	46,313	51,206
March	43,066	43,829	53,797	70,017
April	48,866	56,040	83,077	59,355
May	78,810	91,110	97,698	81,476
June	77,669	88,004	98,313	81,597
July	87,259	93,335	110,014	86,454
August	97,200	103,445	105,149	88,286
September	95,290	97,901	94,391	95,468
October	82,708	94,111	95,363	97,267
November	67,843	71,711	77,818	62,918
December	55,425	57,341	69,553	59,556
TOTAL	807,666	883,290	980,426	897,807

Table 26 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1942, and TOTALS for 1941

Month	Prince Edward Island	Nova Scotia	New Brunswick	Quebec	Ontario
	(Thousands of Imperial gallons)				
January	270	2,346	1,692	9,254	25,460
February	299	2,354	1,507	8,250	22,739
March	451	3,136	2,022	10,236	30,316
April	434	2,705	1,175	8,050	24,566
May	766	3,371	2,079	12,727	30,273
June	603	3,492	2,181	14,859	31,053
July	411	3,599	2,166	16,195	32,437
August	452	3,617	2,272	15,681	33,083
September	1,140	4,536	3,454	16,429	34,027
October	697	4,771	2,725	15,748	31,627
November	601	3,404	2,161	12,544	25,360
December	525	3,525	2,065	9,284	22,320
TOTALS FOR 1942	6,629	40,886	25,439	149,917	343,811
TOTALS FOR 1941	5,175	41,355	26,289	165,839	410,712

Table 26 - GROSS SALES OF GASOLINE IN CANADA, BY MONTHS AND BY PROVINCES, 1942, and TOTALS for 1941 (Con.)

	Manitoba	Saskatchewan	Alberta	British Columbia	TOTAL
	(Thousands of Imperial gallons)				
January	3,901	4,075	5,375	4,835	57,207
February	3,051	3,250	5,022	4,755	51,206
March	4,091	5,695	6,964	6,009	70,017
April	3,336	6,000	7,582	5,504	59,336
May	4,893	11,977	9,985	5,342	81,474
June	5,392	9,328	8,834	5,855	81,597
July	5,337	10,949	8,671	6,635	86,454
August	5,872	10,292	9,913	7,125	88,297
September	7,486	11,210	10,414	6,742	95,460
October	6,815	15,930	11,813	7,142	97,567
November	4,488	8,123	6,911	6,326	69,919
December	3,926	4,978	6,018	6,917	59,896
TOTALS FOR 1942	58,568	101,808	97,502	73,186	897,807
TOTALS FOR 1941	54,213	112,779	93,068	70,996	980,426

Table 27 - NET SALES OF GASOLINE IN CANADA, BY PROVINCES, 1939-1942

Province	1939	1940	1941	1942
	(Thousands of Imperial gallons)			
Prince Edward Island	3,202	3,030	2,689	2,492
Nova Scotia	26,620	29,367	31,955	23,596
New Brunswick	19,480	21,328	20,479	15,990
Quebec	131,333	139,430	150,948	126,636
Ontario	316,506	328,484	346,516	273,341
Manitoba	38,859	40,176	39,764	34,551
Saskatchewan	41,692	47,977	48,778	44,503
Alberta	38,900	41,338	50,587	47,644
British Columbia	46,569	50,984	54,610	44,529
CANADA	663,161	702,114	746,526	610,282

Table 28 - REVENUES FROM GASOLINE TAXES, BY PROVINCES, 1939-1942

Province	1939	1940	1941	1942
	\$			
Prince Edward Island	316,087	300,842	284,722	351,579
Nova Scotia	2,608,189	2,875,400	3,031,449	2,892,101
New Brunswick	1,893,169	2,104,686	2,052,234	2,081,277
Quebec	9,969,226	11,154,540	12,260,427	11,506,921
Ontario	25,105,359	26,608,271	27,641,457	26,608,291
Manitoba	2,750,638	2,805,074	2,736,158	2,678,149
Saskatchewan	2,760,196	3,348,936	3,340,357	3,397,280
Alberta	3,096,644	3,221,775	4,212,305	3,524,625
British Columbia	3,454,852	3,759,629	4,005,947	3,763,626
Yukon .....	...	...	14,300(x)	19,562
CANADA	51,954,360	56,179,173	59,579,356	56,824,411

(x) Levied for first time in 1941.

Table 29 - REVENUES FROM MOTOR VEHICLE REGISTRATIONS AND GASOLINE TAXES, 1926-1942

Year	From motor vehicle registrations	From gasoline taxes	Year	From motor vehicle registrations	From gasoline taxes
	\$	\$		\$	\$
1926	15,434,494	6,360,690	1935	23,090,978	31,532,845
1927	16,572,361	7,963,345	1936	25,632,843	34,532,433
1928	19,004,276	12,547,073	1937	25,993,905	38,373,947
1929	22,514,030	18,760,543	1938	26,230,196	41,247,688
1930	20,166,283	22,655,225	1939	27,961,132	51,954,360
1931	19,684,908	22,546,119	1940	29,300,720	56,179,173
1932	21,126,271	27,083,316	1941	31,559,944	59,579,356
1933	20,576,392	26,467,765	1942	28,498,676	56,824,411
1934	21,567,830	29,054,853			

Table 30 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, 1904-1942

Year	Passenger cars	Commercial vehicles	Motor cycles	TOTAL	Year	Passenger cars	Commercial vehicles	Motor cycles	TOTAL
1904	535	1924 ...	573,204	64,003	8,056	645,263
1905	565	1925 ...	641,186	74,938	7,924	724,048
1906	1,447	1926 ...	736,729	88,019	7,520	832,268
1907	2,148	1927 ...	830,001	102,088	7,562	939,651
1908	3,054	1928 ...	930,619	130,827	7,897	1,069,343
1909	4,809	1929 ...	1,022,654	155,820	8,857	1,187,331
1910	9,158	1930 ...	1,055,514	167,548	9,427	1,232,489
1911	21,733	1931 ...	1,023,923	167,097	9,648	1,200,668
1912	36,429	1932 ...	945,073	159,041	9,419	1,113,533
1913	54,380	1933 ...	917,008	156,170	10,000	1,083,178
1914	74,246	1934 ...	952,427	166,799	10,306	1,129,532
1915	95,284	1935 ...	989,754	175,888	10,484	1,176,126
1916	128,328	1936 ...	1,041,529	187,770	10,825	1,240,124
1917	203,502	1937 ...	1,103,012	205,588	11,102	1,319,702
1918	276,893	1938 ...	1,159,604	223,176	12,073	1,394,853
1919	342,433	1939 ...	1,190,021	236,902	12,322	1,439,245
1920	408,790	1940 ...	1,234,637	252,813	13,379	1,500,829
1921	464,805	1941 ...	1,277,613	276,707	14,438	1,568,758
1922	509,332	1942 ...	1,216,950	291,385	15,818	1,524,153
1923 ...	513,075	54,564	8,346	575,985					

NOTE: Livery and taxi-cabs included with passenger cars.
Buses, convertible cars, road tractors, ambulances, etc., included with commercial vehicles.

Table 31 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY PROVINCES, 1939-1942

Province	1939	1940	1941	1942
	(Number)			
Prince Edward Island	8,040	8,070	8,013	7,537
Nova Scotia	53,008	57,873	62,805	58,872
New Brunswick	38,116	39,000	41,441	37,758
Quebec	213,148	225,152	232,149	222,622
Ontario	682,891	703,872	739,194	715,380
Manitoba	88,864	90,932	96,573	93,147
Saskatchewan	119,018	126,970	131,403	130,040
Alberta	113,702	120,514	124,244	125,482
British Columbia	122,087	128,044	132,509	132,893
Yukon	371	402	427	422
CANADA	1,439,245	1,500,829	1,568,758	1,524,153

Table 32 - REGISTRATIONS OF MOTOR VEHICLES IN CANADA, BY TYPES, 1942

Province	Passenger cars	Motor trucks	Motor buses	Motor cycles	Other motor vehicles	TOTAL
	(number)					
Prince Edward Island ...	6,268	1,195	15	33	26	7,537
Nova Scotia	42,844	13,609	165	803	1,451	58,872
New Brunswick	27,623	8,362	176	384	1,213	37,758
Quebec	173,036	45,609	1,127	2,850	...	222,622
Ontario	611,897	95,861	1,518	6,104	...	715,380
Manitoba	71,673	20,570	108	786	30	93,147
Saskatchewan	89,742	39,284	246	742	26	130,040
Alberta	93,103	31,297	192	890	...	125,482
British Columbia	100,582	27,903	469	3,227	812	132,893
Yukon	182	187	...	19	34	422
CANADA	1,216,950	283,777	4,016	15,818	3,592	1,524,153

Table 33 - FUEL OIL AND DISTILLATE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1939-1942
 (As reported by distributors, and importers--Imperial Gallons--Calendar Years)
 Note: Figures taken from "Petroleum Fuels in Canada" issued by the Bureau of Mines,
 Department of Mines and Resources, Ottawa

Year	DOMESTIC AND BUILDING HEATING		INDUSTRIAL (manufac-turers') heating and for power	TRACTOR fuel oil, not lubricant	RAILWAYS, princi-pally locomotive fuel	BUNKERING, including distribu-tors' tankers	TOTAL DELIVERIES	Inventory on December 31st, at refinery, warehouses and consum-ers' storage
	Number domestic custom-ers	Quantity						
<u>1942</u>								
N.B. and P.E.I.	4,462	3,940,634	4,149,411	134,836	628,736	3,167,590	12,021,207	2,409,100
Nova Scotia	9,982	7,286,831	5,506,091	106,916	305,063	135,717,447	148,922,348	22,520,329
Quebec	34,349	41,240,630	95,002,017	3,092,472	2,212,544	25,890,802	167,438,465	52,823,568
Ontario	24,430	41,820,460	148,239,242	10,995,075	2,242,888	13,057,270	216,354,935	95,412,844
Manitoba	708	1,614,530	5,546,770	14,722,898	898,109	843,679	23,625,986	3,118,688
Saskatchewan ...	2,509	3,088,769	13,767,590	12,973,846	484,798	6	30,315,009	15,227,769
Alta. and N.W.T.	108	117,527	5,737,544	10,614,702	22,284,326	151,057	38,904,956	12,125,605
B.C. and Yukon..	18,740	24,923,606	65,726,501	2,541,796	44,820,681	60,281,360	198,293,944	28,162,555
TOTAL 1942 ...	95,288	124,032,987	343,674,966	55,182,541	73,877,145	239,109,211	835,876,850	231,800,458
TOTAL 1941 ...	108,445	146,750,746	301,818,674	58,773,421	73,173,172	275,233,778	855,749,791	226,657,218
TOTAL 1940 ...	62,815	150,073,413	241,293,960	30,604,540	55,268,523	248,567,157	725,807,593	215,487,681
TOTAL 1939 ...	58,654	136,101,107	181,233,889	34,773,691	53,795,067	204,944,464	610,854,218	203,628,275

Fuel oil includes all oils heavier than 42° A.P.I. processed from petroleum. Amounts recorded respec-tively for domestic, industrial, and tractor purposes were for actual CONSUMPTION within the areas indicated; those recorded under railways and bunkering were taken from, or accepted at delivery points within these areas, but were consumed by carriers where required. Fuel oil used as a material in manufacturing is omitted.

Table 34 - KEROSENE DELIVERIES: DELIVERIES FOR CONSUMPTION, BY PROVINCES, 1939-1942

Province	For domestic heating, cooking and lighting purposes		For fuel in tractors	For other general usage	Less kerosene used as material (major users)	Total deliveries	Inventory December 31
<u>1942</u>							
N.B. and P.E.I.	2,063,670	...	...	26,402	- 17,275	2,072,797	298,092
Nova Scotia	2,522,885	185	...	14,574	- 17,559	2,520,085	1,836,746
Quebec	5,167,749	17,160	...	247,958	-106,311	5,326,556	3,782,428
Ontario	5,714,278	526,168	...	756,038	-471,135	6,525,349	3,876,216
Manitoba	1,959,246	75,096	...	378,989	- 6,612	2,406,719	475,596
Saskatchewan	2,260,574	55,789	...	227,946	- 2,123	2,542,186	1,267,441
Alberta and N.W.T.	1,640,376	388,513	...	265,610	- 1,147	2,293,354	1,218,352
British Columbia and Yukon	1,192,613	...	...	45,158	- 4,653	1,233,118	1,381,207
TOTAL 1942	22,521,393	1,062,911	...	1,962,675	-628,815	24,920,164	14,136,078
TOTAL 1941	22,890,080	831,037	...	1,273,053	-411,239	24,542,931	12,476,332
TOTAL 1940	22,652,011	1,772,271	...	488,667	...	24,912,949	15,089,049
TOTAL 1939	25,804,208	2,643,188	...	339,704	...	28,947,111	14,308,933

Table 35 - PETROLEUM COKE: DELIVERIES FOR CONSUMPTION, 1941 and 1942

(Used as fuel only--not as manufacturing materials)

Note: Figures taken from "Petroleum Fuels in Canada" issued by the Department of Mines & Resources, Ottawa

Fuel for domestic and industrial heating	1941	1942
	(tons)	
New Brunswick and Prince Edward Island .....	...	...
Nova Scotia	467	362
Quebec	500	10
Ontario	36,704	27,292
Manitoba .....	...	...
Saskatchewan	1,402	1,715
Alberta and Northwest Territories	77	101
British Columbia and Yukon .....	...	...
TOTAL	39,150	29,480

(b) MANUFACTURE OF LUBRICATING OILS AND GREASES (OTHER THAN IN REFINERIES) - 1942

Eighteen Canadian factories were occupied chiefly in compounding lubricating oils and greases in Canada during 1942. Eleven of these plants were located in Ontario, 3 in Quebec, 3 in British Columbia and 1 in Saskatchewan.

They employed a fixed and working capital of \$605,344 and gave work to a monthly average of 85 people who were paid \$146,052 as salaries or wages. Purchases of processing materials and containers cost \$747,220 and the selling value of products totalled \$1,087,687. Included in the year's output were lubricating oils at \$782,436, lubricating greases at \$217,755 and soaps or soap powders at \$43,209.

Total Canadian output of lubricating oils, including production from the refineries, amounted to 39,374,231 gallons in 1942 against 38,008,499 gallons in 1941. Corresponding figures for lubricating greases totalled 22,600,812 pounds in 1942 and 16,668,438 pounds in 1941. By taking account of changes in producers' stocks and adding the imports to the Canadian production, the consumption of lubricating oils in Canada during 1942 amounted to 53,844,964 gallons.

Table 36 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, 1922-1942

Year	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
		\$		\$	\$	\$	\$
1922	6	800,629	57	101,398	4,172	283,311	539,742
1923	6	738,843	62	116,751	6,236	381,390	709,028
1924	8	700,010	66	125,727	6,500	423,419	733,720
1925	8	1,118,649	83	153,148	14,113	446,721	959,512
1926	6	701,676	55	109,810	4,746	398,288	626,071
1927	7	693,371	54	110,000	4,614	313,391	548,971
1928	9	720,136	67	119,346	7,204	350,656	673,780
1929	10	1,373,192	95	168,339	8,699	572,757	1,024,134
1930	13	1,256,399	104	186,773	8,831	492,550	977,494
1931	12	847,725	64	104,677	7,481	264,319	570,219
1932	7	593,484	58	82,870	7,003	207,016	357,433
1933	10	628,968	77	100,715	7,000	270,791	464,544
1934	9	570,545	81	104,427	6,337	309,523	551,836
1935	13	695,409	85	106,349	7,625	453,306	774,444
1936	13	576,106	84	116,307	5,313	336,737	620,362
1937	13	520,687	90	120,260	5,127	407,903	752,060
1938	12	523,370	89	122,294	4,284	425,959	881,736
1939	11	596,256	91	153,317	5,129	545,394	1,084,279
1940	11	597,815	96	192,241	5,309	557,632	1,200,303
1941	14	565,471	89	140,464	5,005	723,923	1,245,623
1942	18	605,344	85	146,052	6,722	747,220	1,087,687

Table 37 - PRINCIPAL STATISTICS OF THE LUBRICATING OILS AND GREASES INDUSTRY, BY PROVINCES, 1941 and 1942

Year	No. of plants	Capital employed	Average number of employees	Salaries and wages	Cost of fuel and electricity at works	Cost of materials at works	Gross selling value of products at works
<u>1941</u>							
Ontario	10	448,072	57	87,512	1,770	642,447	1,073,189
Quebec	3)	117,399	32	52,952	3,235	81,476	172,434
British Columbia..	1)						
CANADA	14	565,471	89	140,464	5,005	723,923	1,245,623
<u>1942</u>							
Ontario	11	395,786	50	82,937	2,419	654,539	887,096
Quebec	3	114,549	26	50,231	3,036	87,276	149,224
Saskatchewan	1)						
British Columbia..	3)	95,009	9	12,884	1,257	24,975	50,767
CANADA	18	605,344	85	146,052	6,722	747,220	1,087,687

Table 38 - CAPITAL EMPLOYED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1941 and 1942

Province	Value of land, buildings, machinery and equipment	Value of Inventories		Operating capital (cash, bills receivable, etc.)	TOTAL CAPITAL EMPLOYED
		Raw materials, fuel and other supplies on hand and stocks in process	Finished products on hand		
	\$	\$	\$	\$	\$
<u>1941</u>					
Ontario	105,568	43,188	111,398	187,918	448,072
Other provinces	69,505	13,632	2,076	32,186	117,399
CANADA	175,073	56,820	113,474	220,104	565,471
<u>1942</u>					
Ontario	83,954	28,530	103,646	179,656	395,786
Other provinces	135,607	14,187	9,950	49,814	209,558
CANADA	219,561	42,717	113,596	229,470	605,344

Table 39 - EMPLOYEES, SALARIES AND WAGES IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1941 and 1942

Province	Average Number of Employees				TOTAL	Salaries	Wages	TOTAL SALARIES and WAGES
	On Salaries		On Wages					
	Male	Female	Male	Female				
					\$	\$	\$	
<u>1941</u>								
Ontario	30	8	17	2	57	69,494	18,018	87,512
Other provinces	13	3	16	...	32	34,740	18,212	52,952
CANADA	43	11	33	2	89	104,234	36,230	140,464
<u>1942</u>								
Ontario	24	6	18	2	50	59,060	23,877	82,937
Other provinces	16	2	15	2	35	40,381	22,734	63,115
CANADA	40	8	33	4	85	99,441	46,611	146,052

Table 40 - NUMBER OF WAGE-EARNERS IN THE LUBRICATING OILS AND GREASES INDUSTRY, BY MONTHS, 1941 and 1942

Month	Ontario		Other Provinces		C A N A D A	
	1941	1942	1941	1942	1941	1942
January	13	19	15	15	28	34
February	14	19	14	16	28	35
March	13	19	15	17	28	36
April	16	20	15	17	31	37
May	16	21	18	17	34	38
June	17	20	16	19	33	39
July	17	19	15	19	32	38
August	20	19	16	18	36	37
September	20	19	18	17	38	36
October	17	19	14	16	31	35
November	16	21	15	14	31	35
December	15	19	14	15	29	34
AVERAGE	19	20	16	17	35	37

Table 41 - FUEL AND ELECTRICITY USED IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1941 and 1942

Kind	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Coal, anthracite	ton	22	300	26	586
Coal, bituminous - Canadian	ton	...	...	...	...
Imported	ton	153	1,303	142	1,373
Coke	ton	2	22	1	14
Gasoline (includes gasoline used in cars and trucks)	Imp.gal.	650	210	4,312	1,156
Kerosene or coal oil	Imp.gal.	100	20	50	12
Fuel oil	Imp.gal.	...	...	400	24
Wood	cord	63	677	91	1,065
Manufactured gas	M cu.ft.	350	370	710	719
Electricity purchased	K. W. H.	91,433	2,103	82,320	1,973
TOTAL .....	...	...	5,005	...	6,722

Table 42 - POWER EQUIPMENT IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1941 and 1942

	1 9 4 1		1 9 4 2	
	Number of units	Total rated horse power	Number of units	Total rated horse power
Steam engines and turbines	2	8	2	8
Total Primary (all in use)	2	8	2	8
Electric motors run by purchased power	25	83	37	71
TOTAL	27	91	39	79
Stationary boilers	2	18	5	293

Table 43 - MATERIALS USED IN LUBRICATING OILS AND GREASES INDUSTRY, 1941 and 1942

Material	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Cost at works	Quantity	Cost at works
		\$		\$	
Compounding stocks (oils, etc.) ...	Imp.gal.	1,938,337	509,001	1,347,820	513,140
Tallow and grease	lb.	266,470	22,356	180,014	18,684
All other materials .....	...	...	36,393	...	82,894
Shipping containers .....	...	...	156,173	...	132,502
TOTAL .....	...	...	723,923	...	747,220

Table 44 - PRODUCTS MADE IN THE LUBRICATING OILS AND GREASES INDUSTRY, 1941 and 1942

Product	Unit of measure	1 9 4 1		1 9 4 2	
		Quantity	Gross selling value at works	Quantity	Gross selling value at works
		\$		\$	
Greases, lubricating	pound	1,105,532	185,523	1,726,281	217,755
Oils, lubricating	gallon	1,481,328	976,182	1,236,595	782,436
Soaps and powders .....	...	...	52,629	500,294	43,209
All other products .....	...	...	31,299	...	44,287
TOTAL .....	...	...	1,245,623	...	1,087,687

DIRECTORY OF OPERATING PETROLEUM REFINERIES IN CANADA, 1942

Name of Company	Location of refinery	Crude oil capacity Bbl. per 24 hours	Type of refinery	Cracking Plant	
				Type	Capacity Bbl. per 24 hours
<u>NOVA SCOTIA -</u>					
Imperial Oil Limited	Imperoyal	34,000	S - C	Combination unit	11,600
<u>NEW BRUNSWICK -</u>					
New Brunswick Gas & Oilfields Ltd.	Waldon	250	S	...	...
<u>QUEBEC -</u>					
British American Oil Co. Ltd.	Montreal East	17,000	S - C	Liquid and vapour phase	7,500
Imperial Oil Limited	Montreal	25,000	S - C	Tube and tank	9,800
McCull-Frontenac Oil Co. Limited	Montreal East	20,000	S - C	2 Jenkins, 1 Kellogg and 1 own make	12,500
Shell Oil Company of Canada Ltd.	Montreal East	10,000	S - C	Dubbs Selective	7,500
<u>ONTARIO -</u>					
British American Oil Co. Limited	Toronto	6,000	S - C	Liquid and vapour phase	3,000
Canadian Oil Companies Limited	Petrolia	3,500	S - C	Dubbs	1,500
Good Rich Refining Co. Ltd.	Port Credit	4,000	S - C	Dubbs	1,300
Imperial Oil Limited	Sarnia	41,500	S - C	Tube and tank	20,000
McCull-Frontenac Oil Co. Limited	Toronto	13,000	S - C	Combination unit and Jenkins Stills	13,000
<u>MANITOBA -</u>					
Anglo-Canadian Oils Ltd.	Brandon	1,400	S - C	Dubbs	500
North Star Oil Limited	St. Boniface	2,000	S - C	Dubbs	500
Radio Oil Refineries Ltd.	East Kildonan	500	S	...	...
Trump Oil Company Limited	Morris	250	S	...	...
<u>SASKATCHEWAN -</u>					
British American Oil Co. Limited Consumers' Co-Operative Refineries Ltd.	Moose Jaw	4,000	S - C	Liquid and vapour phase	2,000
Hi-Way Refineries Limited	Regina	1,500	S - C	Dubbs	500
Hi-Way Refineries Limited	Moose Jaw	275	S	...	...
Hi-Way Refineries Limited	Saskatoon	275	S	...	...
Hi-Way Refineries Limited	Rosetown	275	S	...	...
Imperial Oil Limited	Regina	9,500	S - C	Tube and tank	4,200
Northern Petroleum Corporation, Ltd.	Kamsack	200	S	...	...
Sterling Refineries Ltd.	Yorkton	750	S - C	Liquid phase	250
<u>ALBERTA -</u>					
Abasand Oils Ltd.	Edmonton	600	...	...	...
British American Oil Co. Ltd.	Calgary	4,500	S - C	Liquid and vapour phase	2,250
Dina Oil & Refining Co. Ltd.	Dina	200	S	...	...
Gas and Oil Products, Ltd.	Hartell	3,000	S - C	Dubbs	500
Gold Standard Oils Ltd.	Wainwright	300	S	...	...
Imperial Oil Ltd.	Calgary	8,000	S - C	Combination unit	4,000
Huff Refinery Co. Ltd.	Lethbridge	1,200	C	Semi-cracking	...
Lloydminster Refineries Ltd.	Lloydminster	300	S	...	...
<u>BRITISH COLUMBIA -</u>					
Imperial Oil Limited	Ioco	16,000	S - C	Tube and tank	2,600
Shell Oil Company of British Columbia Ltd.	Vancouver	4,000	S	...	...
Standard Oil Company of British Columbia Ltd.	Burnaby	4,500	S	...	...
<u>NORTHWEST TERRITORIES -</u>					
Imperial Oil Limited	Norman Wells	840	S	...	...

S - Skimming
C - Cracking

DIRECTORY OF PLANTS ENGAGED IN THE COMPOUNDING OF LUBRICATING OILS AND GREASES IN CANADA, 1942

Name of Company

Location of Plant

QUEBEC -

Chapman, L. L. and W. H.
Economic Products Ltd.
Union Products

Champlain St., Gatineau Point
6508 Durocher Ave., Outremont
1150 Conway St., Montreal

ONTARIO -

Campbell Grease Company
Casite Products Company
Hollingshead, R. M., Co. of Canada, Ltd.
The Kearns Co. of Canada
Kendall Refining Company of Canada, Ltd.
Midora Products
Ontario Lubricating Co. Ltd.
Ontario Gasoline & Oil Ltd.
Tide Water Oil Co. of Canada, Ltd.
Waddell, R.

414 Eastern Ave., Toronto
Colebrook
Bowmanville
226 Weston Road, Toronto
35 Fraser Ave., Toronto
174 Queensdale Ave. East, Toronto
120 Chatham St., Hamilton
45 Dickens Ave., Toronto
201 Weston Road South, Toronto
John and Haymarket Sts., Hamilton

BRITISH COLUMBIA -

Canada Grease Works Ltd.
Renton Distributors Ltd.
H. J. Halvorsen

280 East 6th Avenue, Vancouver
1927 Granville St., Vancouver
5405 W. Boulevard, Vancouver

SASKATCHEWAN -

Home Oil & Refining Co. Ltd.

Humboldt

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